

 The Outdoor Company™	<b>Guangzhou Jarden Technical Center</b> <b>Quality Department.</b> Rm. 102-103, Innovation Bld. Tian An Hi-Tech Ecological Park, N° 555 Panyudadao road, Panyu District, Guangzhou (Tel. 86-20-39378500)	
<b>Defect List</b>	<b>GDL013</b>	<b>Rev. 3</b>
<b>E-LIGHTS GLOBAL DEFECT LIST (USA, CANADA, EMEA, JAPAN, AUSTRALIA)</b>		
Distribution List	ATC Quality Team, GQMs, Suppliers	

Date	Rev. N°	Modifications tracking
10.20.2009	1	Initial release
10.31.2012	2	Revise defect definition, tighten the AQL.
06.13.2016	3	Define functional failure as a critical defect.

## 1 PRODUCT DEFINITION

The product is defined by the product specifications and drawings provided to the vendor, as well as one product jointly accepted by Coleman and the supplier (so-called "Sealed Sample" or "PSA Sample")

## 2 SAMPLING RULES

Inspection lot size determined per ANSI specification ASQC Z1.4-2003. General Inspection Level as below table unless otherwise specified.

If batch size < 50 units => 100% inspection	AQL			
	Level	Critical	Major	Minor
General	1	0.065	1	4
New supplier / First shipment / Special cause	2	0.065	1	4

## 3 DEFECT CRITERIA

### Critical Defect:

- A product or component of the product that is dangerous or can be potentially dangerous;
- A product not compliant with retailer/ legal / governmental /industry/ regulatory requirements.
- A functional failure of a product or component.

### Major Defect:

- Performances are non-conforming.
- Aesthetics present a clear visible defect on the "Main surface (Primary Visual Surface)" that is unacceptable to the customer / consumer / brand.

### Minor Defect:

- Non-conformance that is not likely to materially reduce the usability, durability, appearance, or performance of the item or its salability. Not likely to cause customer return.
- Minor aesthetic defects that are not deemed as important by customer / consumer / brand.


*Primary Visual Surface* – Top, front and sides, always in view by customer during normal use.

*Secondary Visual Surface* – Internal areas, backs and undersides that are partially in view by consumer during normal use.

*Not Visual Surface* – Undersides area, rarely in view by customer during normal use.

*Major Area* – All surfaces on the item that are either readily visible or will be visible with no effort required during the course of normal use or observation.

Prepared by :	Date :	Reviewed by :	Date	Approved by :	Date :
Henry Lee	2009/08/17	Robert Clausing	2009/10/20	Robert Clausing	2009/10/20
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*Minor Area* – All surfaces on the item that are occasionally or rarely visible, would require effort to be visible (e.g. bending down at the knees, kneeling, or moving components for observation flipping over, detaching, disassembling, or requiring a flashlight for observation).

## 4 INSPECTION CRITERIA

### 4.1 General

- 4.1.1 The following procedures and standards will be used to determine the quality of the product and the acceptance or rejection of a shipment of the product. Supporting documents include B2B Spec, W-spec, BOM and drawing requirements etc.
- 4.1.2 The Quality Assurance personnel shall be responsible for following this procedure. The auditor has the authority to randomly select the inspection samples, following the sampling plan strictly, and reject nonconforming products. Additional samples may be checked in case for verifying any defectives.
- 4.1.3 Visual inspection is to evaluate the shelf appeal of the Coleman product. The location of the inspection should have good lighting, optimum 150 foot candles at the table-top surface. There shall be sufficient space and clean table surface. Product shall be inspected a 90 degree angle to a distance of approximately 0.5 meters. It is assumed a typical inspection in this manner should last approximately 5-10 seconds to allow the eyes to focus on the object.

### 4.2 Inspection Criteria

Item Code s	MASTER CARTON	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Carton does not match drawing	Level SI		X	
2	Label is unscannable or illegible	Level I	X		
3	Missing country of origin	Level I	X		
4	Missing date code / Purchase Order #	Level I		X	
5	Staple on master carton	Level I	X		
6	Wrong product or quantity in carton	Level I	X		
7	Moisture content greater than 15%	Level SI	X		
8	Contamination in carton - bugs, trash, mold, etc.	Level I	X		
9	Excess material in carton - tape, cardboard and other packaging	Level I		X	
10	Damaged or Deformed larger than 6mm*6mm	Level I		X	
11	Dirty larger than 6mm*6mm	Level I			X
12	Carton is not fully sealed by tape or other means	Level I		X	

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Item Code s	UNIT PACKAGING (EACH)	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	POS does not match drawing	Level SI		X	
2	Printed colours is obviously different from approved sample or specifications	Level SI	X		
3	Staple stick out	Level I	X		
4	Barcode is unscannable	Level I	X		
5	Images and text on POS does not match product inside the POS.	Level I	X		
6	Moisture content greater than 15%	Level SI	X		
7	Contamination in carton - bugs, trash, mold, etc.	Level I	X		
8	Excess material in carton - tape, cardboard and other packaging	Level I		X	
9	Missing/wrong country of origin.	Level I	X		
10	Missing date code / vendor code.	Level I		X	
11	Damaged or Deformed larger than 6mm*6mm	Level I		X	
12	Dirty larger than 6mm*6mm	Level I		X	

Item Code s	FLEXIBLE FILMS / POLYBAGS	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Strength of the poly bags is weak "easy to break"	Level SI		X	
2	Damaged	Level I		X	
3	Missing hole/warning information.	Level SI	X		
4	Other defects on poly bag	Level I			X

Item Code s	AESTHETICS	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Scratch/shrink mark/dirty	Level I		X	
2	Logo is wrongly positioned/not as drawing requirement.	Level I		X	
3	Color variation/difference	Level I		X	
4	Excessive glue	Level I		X	
5	Poor screen printing/ laser engraving	Level I		X	
6	Poor anodizing	Level I		X	
7	Flashes/burrs	Level I		X	

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Item Codes	FUNCTIONING	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Incorrect/missing manufacturing date/vendor code	Level I	X		
2	Broken/crack reflector or any parts.	Level I	X		
3	Screw is loosening.	Level I	X		
4	Grinding/interference of threads.	Level I	X		
5	Battery connector/position is wrong.	Level I	X		
6	Lumen can't meet requirement	Level I		X	
7	LED/lamp is not in the center position.	Level I		X	
8	No light/ flickering.	Level I	X		
9	Battery can't be recharged	Level I	X		
10	Difficult to adjust light focusing.	Level I	X		
11	Sticker for covering power switch missing/peel off	Level I		X	
12	Lanyard is easily broken	Level I	X		
13	ON/OFF switches aren't workable	Level I	X		
14	ON/OFF switch are wrongly marked	Level I	X		
15	ON/OFF switch not move smoothly	Level I		X	

Item Codes	CONFORMITY vs. BOM	Sampling Plan ANSI/ASQ QC Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Wrong / Missing accessories	Level I	X		
2	Wrong/illegal/missing instruction sheet/label	Level I	X		

Item Codes	SAFETY, RELIABILITY	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Non functional sharp edge	Level I	X		
2	Missing CPSC certificate.	Level SI	X		
3	Missing prop65 warning to US market	Level SI	X		

Item Codes	TEST	Sampling Plan ANSI/ASQ C Z 1.4	Defect Level		
			CRI	MAJ	MIN
1	Fail in switch test	Level SI	X		

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2	Fail in water resistance/proof test	Level SI	X		
3	Fail in battery lock cycle test	Level SI	X		
4	Fail in product drop test	Level SI	X		
5	Fail in carton box drop test	Level SI	X		
6	Fail in carton compression test	Level SI	X		
7	Fail in run-time test(High)	Level SI	X		

## 5 REGIONAL SPECIFIC REQUIREMENTS

USA

CANADA

EMEA

JAPAN

AUSTRALIA

## 6 PICTURES FOR REFERENCE



Inset card damaged



Clamshell splitted

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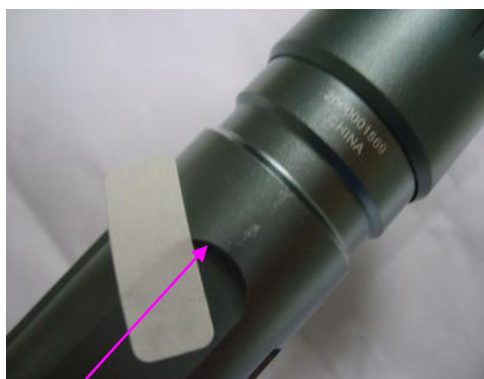
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Poor laser engraving for the "Coleman" logo



Bad anodizing



Scratched on the surface



Poor assembly, abnormal gap.



Glue contamination



colour difference (in the same body)

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Attachment:

### ANSI/ASQC Z 1.4

EQUIVALNT OF BS 6001,ABC-105,NFX06-022,DIN 40,080,UNI 48-42

Former Mil-Std 105E

SAMPLE SIZE CODE LETTERS

### Sampling Inspection Scheme of Visual Test

Levls-I/Visual

Rank	Normal Sampling Inspection								Special Sampling Inspection								
	Normal Sample code	Normal Sample size	Critical		Major		Minor		Special Sample code	Special Sample size	Critical		Major		Minor		
			AQL0.065		AQL1.0		AQL4.0				AQL0.065		AQL1.0		AQL4.0		
			Normal		Normal		Normal				Special		Special		Special		
			Ac	Re	Ac	Re	Ac	Re			Ac	Re	Ac	Re	Ac	Re	
1~15	A	2	0	1	0	1	0	1	B	3	0	1	0	1	0	1	
16~25	B	3	0	1	0	1	0	1	C	5	0	1	0	1	0	1	
26~90	C	5	0	1	0	1	0	1	D	8	0	1	0	1	1	2	
91~150	D	8	0	1	0	1	1	2	E	13	0	1	0	1	1	2	
151~280	E	13	0	1	0	1	1	2	F	20	0	1	0	1	1	2	
281~500	F	20	0	1	0	1	2	3	G	32	0	1	1	2	2	3	
501~1200	G	32	0	1	1	2	3	4	H	50	0	1	1	2	3	4	
1201~3200	H	50	0	1	1	2	5	6	J	80	0	1	1	2	5	6	
3201~10000	J	80	0	1	2	3	7	8	K	125	0	1	2	3	8	9	
10001~35000	K	125	0	1	3	4	10	11	L	200	0	1	3	4	12	13	
35001~150000	L	200	0	1	5	6	14	15	M	315	0	1	5	6	18	19	
150001~500000	M	315	0	1	7	8	21	22	N	500	1	2	8	9	18	19	
7500001	N	500	1	2	10	11	21	22	P	800	1	2	12	13	18	19	

### Sampling Inspection Scheme of Functional Test

Levls-SI/Functional

Rank	Normal Sampling Inspection							Special Sampling Inspection								
	Normal Sample code	Normal Samplesize	Critical		Major		Minor		Special Sample code	Special Samplesize	Critical		Major		Minor	
			AQL0.065		AQL1.0		AQL4.0				AQL0.065		AQL1.0		AQL4.0	
			Normal		Normal		Normal				Special		Special		Special	
			Ac	Re	Ac	Re	Ac	Re			Ac	Re	Ac	Re	Ac	Re
1~50	A	2	0	1	0	1	0	1	B	3	0	1	0	1	0	1
51~500	B	3	0	1	0	1	0	1	C	5	0	1	0	1	0	1
501~35000	C	5	0	1	0	1	0	1	D	8	0	1	0	1	1	2
?35001	D	8	0	1	0	1	1	2	E	13	0	1	0	1	1	2

Instruction:

1 If sample size equals, or exceeds lot or batch size, do 100% inspection.

2 Ac=acceptable number

3 Re=rejected number

4 Sample size A follows AQL 0.065, Sample size B follows AQL 1.0, and Sample size C follows AQL 4.0

5 Rank of visual inspection includes: appearance and performance test for safety.

6 Rank of functional test includes: lab test and periodic test.

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